

FIG. 1

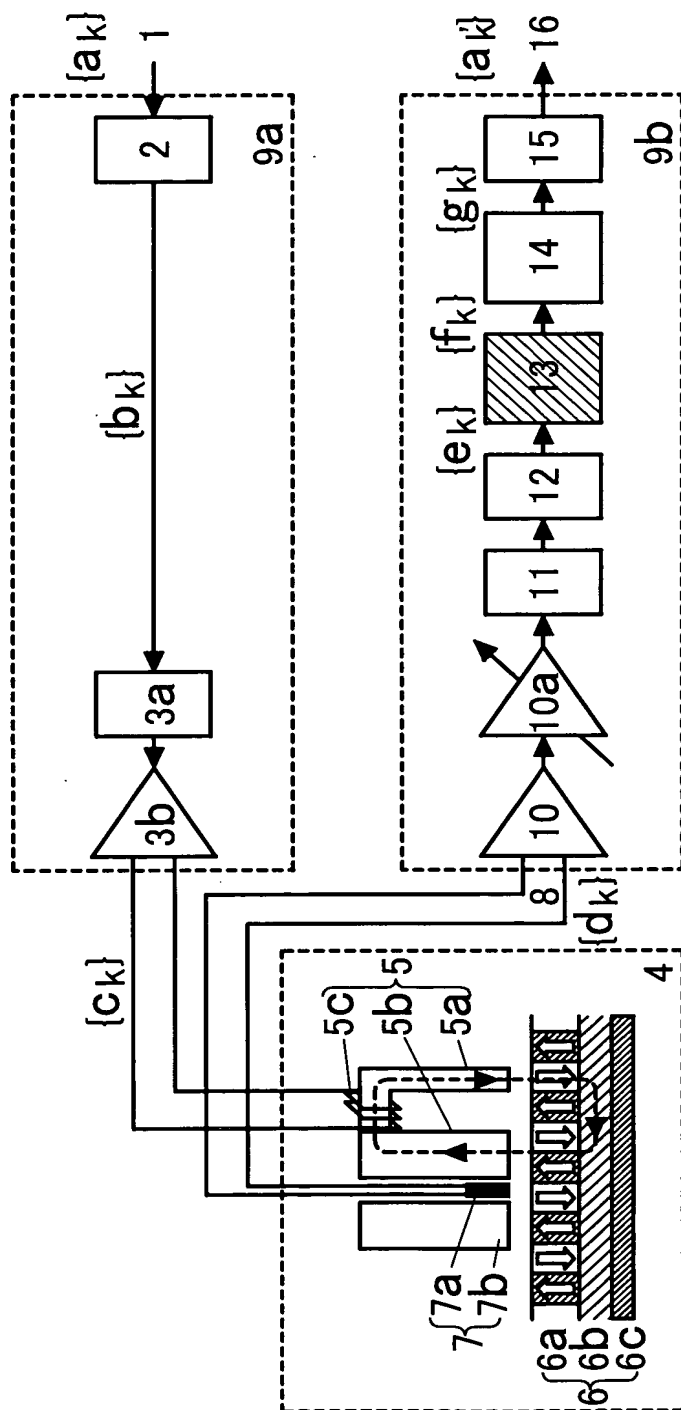


FIG. 2

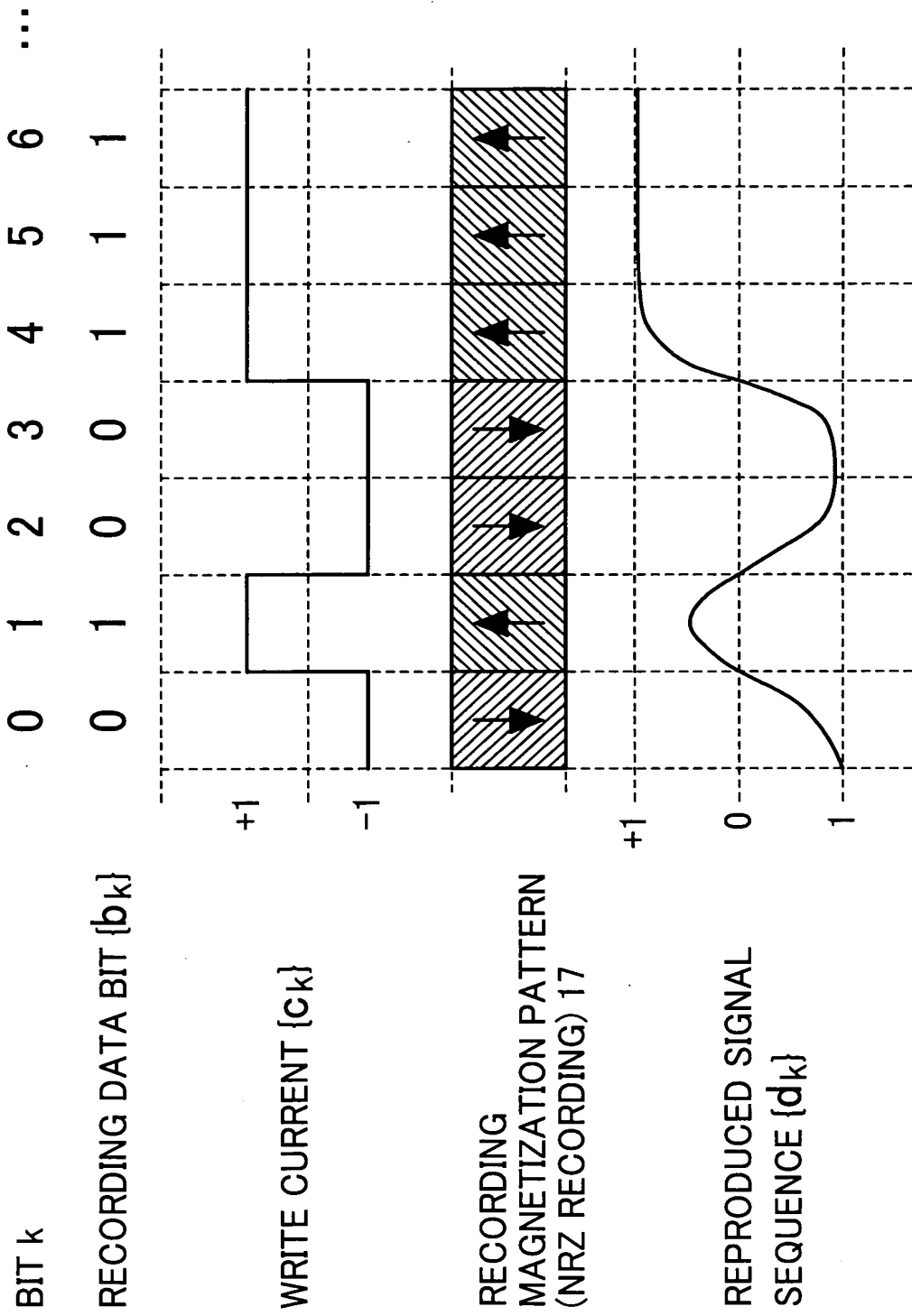


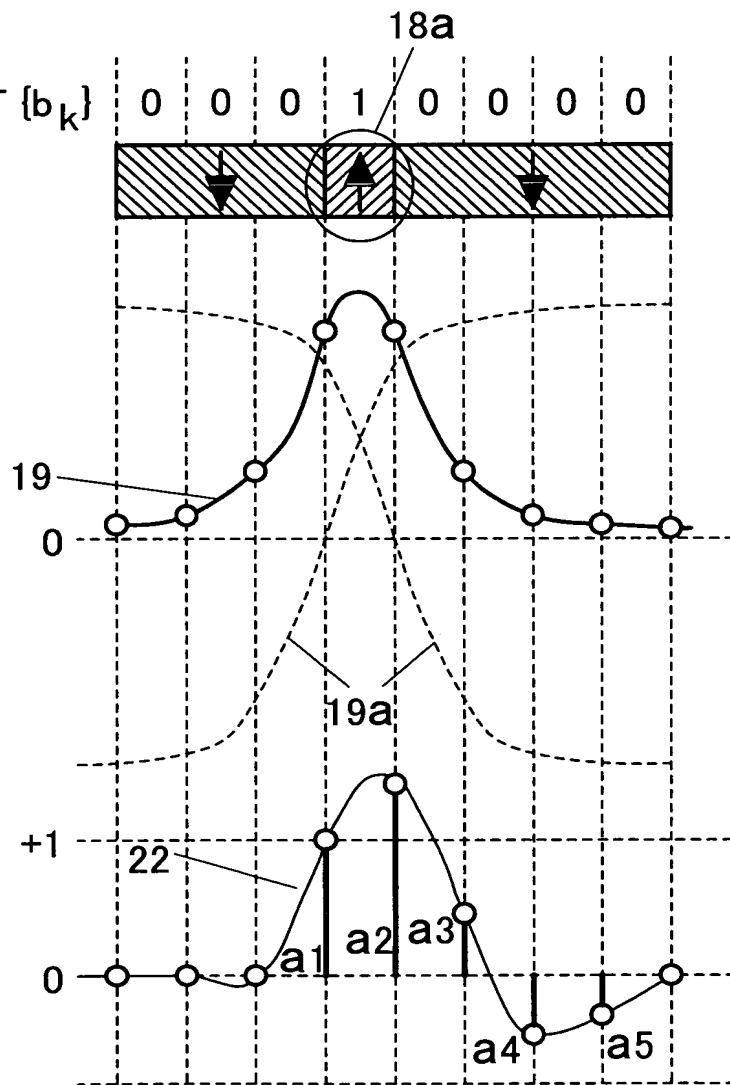
FIG. 3

RECORDING DATA BIT $\{b_k\}$

DIBIT RECORDING
MAGNETIZATION
PATTERN 18

REPRODUCED
WAVEFORM

EQUALIZED
WAVEFORM



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FIG. 4

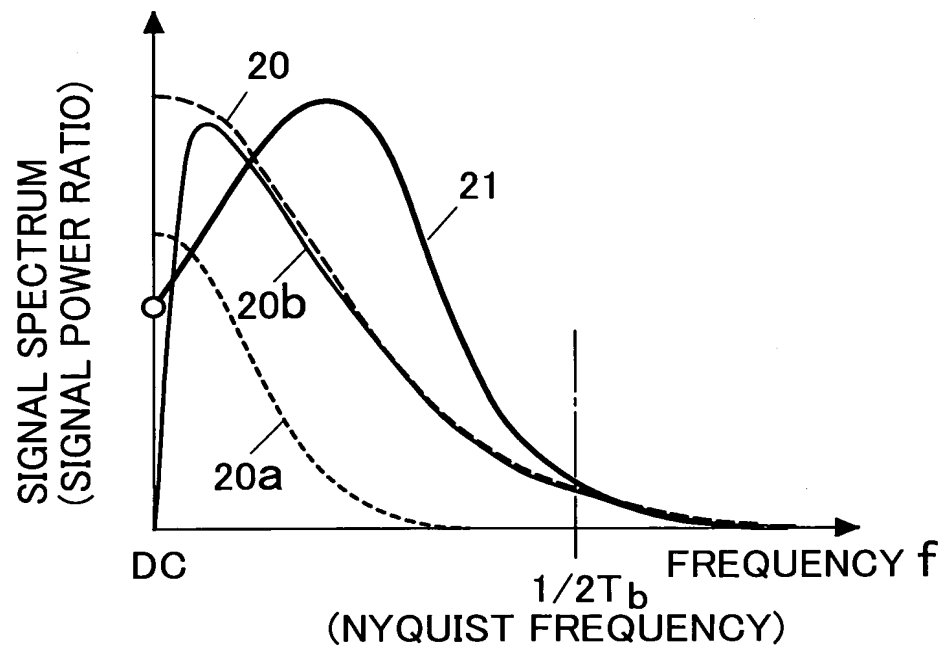


FIG. 5

K=0.8

α	n=4 (a1,a2,a3,a4)	n=5 (a1,a2,a3,a4,a5)
0	(1.0 0.81 0.18 0.0)	(1.0 0.81 0.20 0.024 0.0)
0.1	(1.0 0.80 0.15 -0.024)	(1.0 0.81 0.20 0.019 -0.0048)
0.2	(1.0 0.78 0.11 -0.062)	(1.0 0.81 0.19 0.0063 -0.017)
0.3	(1.0 0.76 0.051 -0.11)	(1.0 0.81 0.18 -0.021 -0.039)
0.4	(1.0 0.72 -0.027 -0.17)	(1.0 0.79 0.15 -0.066 -0.074)
0.5	(1.0 0.67 -0.12 -0.23)	(1.0 0.77 0.099 -0.13 -0.12)
0.6	(1.0 0.60 -0.23 -0.29)	(1.0 0.74 0.027 -0.22 -0.17)
0.7	(1.0 0.53 -0.34 -0.36)	(1.0 0.69 -0.068 -0.31 -0.22)
0.8	(1.0 0.44 -0.47 -0.42)	(1.0 0.62 -0.18 -0.42 -0.28)
0.9	(1.0 0.35 -0.59 -0.48)	(1.0 0.54 -0.31 -0.53 -0.32)
1	(1.0 0.25 -0.72 -0.54)	(1.0 0.45 -0.46 -0.63 -0.36)

K=1.0

α	n=4 (a1,a2,a3,a4)	n=5 (a1,a2,a3,a4,a5)
0	(1.0 1.08 0.35 0.0)	(1.0 1.11 0.44 0.086 0.0)
0.1	(1.0 1.06 0.29 -0.041)	(1.0 1.11 0.43 0.069 -0.012)
0.2	(1.0 1.03 0.22 -0.093)	(1.0 1.11 0.41 0.037 -0.034)
0.3	(1.0 0.98 0.12 -0.15)	(1.0 1.10 0.38 -0.014 -0.068)
0.4	(1.0 0.92 0.016 -0.22)	(1.0 1.07 0.32 -0.087 -0.11)
0.5	(1.0 0.85 -0.10 -0.29)	(1.0 1.04 0.24 -0.18 -0.16)
0.6	(1.0 0.78 -0.23 -0.36)	(1.0 0.99 0.14 -0.29 -0.22)
0.7	(1.0 0.69 -0.37 -0.42)	(1.0 0.93 0.014 -0.41 -0.28)
0.8	(1.0 0.60 -0.51 -0.49)	(1.0 0.86 -0.13 -0.54 -0.33)
0.9	(1.0 0.51 -0.65 -0.56)	(1.0 0.77 -0.29 -0.67 -0.38)
1	(1.0 0.41 -0.79 -0.62)	(1.0 0.67 -0.45 -0.80 -0.43)

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FIG. 6

K=1.2

α	n=4 (a1,a2,a3,a4)	n=5 (a1,a2,a3,a4,a5)
0	(1.0 1.32 0.52 0.0)	(1.0 1.43 0.77 0.20 0.0)
0.1	(1.0 1.28 0.42 -0.056)	(1.0 1.42 0.75 0.15 -0.024)
0.2	(1.0 1.22 0.32 -0.12)	(1.0 1.40 0.70 0.090 -0.059)
0.3	(1.0 1.16 0.19 -0.19)	(1.0 1.38 0.63 0.0044 -0.10)
0.4	(1.0 1.08 0.059 -0.26)	(1.0 1.34 0.53 -0.10 -0.16)
0.5	(1.0 1.00 -0.082 -0.33)	(1.0 1.29 0.42 -0.23 -0.21)
0.6	(1.0 0.92 -0.23 -0.41)	(1.0 1.23 0.28 -0.37 -0.27)
0.7	(1.0 0.83 -0.38 -0.48)	(1.0 1.15 0.12 -0.51 -0.33)
0.8	(1.0 0.73 -0.53 -0.55)	(1.0 1.07 -0.052 -0.66 -0.39)
0.9	(1.0 0.63 -0.68 -0.63)	(1.0 0.98 -0.23 -0.82 -0.45)
1	(1.0 0.53 -0.84 -0.70)	(1.0 0.88 -0.42 -0.96 -0.50)

K=1.4

α	n=4 (a1,a2,a3,a4)	n=5 (a1,a2,a3,a4,a5)
0	(1.0 1.50 0.65 0.0)	(1.0 1.72 1.15 0.33 0.0)
0.1	(1.0 1.44 0.52 -0.068)	(1.0 1.70 1.08 0.25 -0.038)
0.2	(1.0 1.37 0.39 -0.14)	(1.0 1.66 0.99 0.15 -0.085)
0.3	(1.0 1.29 0.24 -0.22)	(1.0 1.62 0.88 0.027 -0.14)
0.4	(1.0 1.20 0.092 -0.29)	(1.0 1.57 0.74 -0.11 -0.20)
0.5	(1.0 1.11 -0.065 -0.37)	(1.0 1.50 0.59 -0.27 -0.26)
0.6	(1.0 1.02 -0.22 -0.45)	(1.0 1.43 0.41 -0.43 -0.33)
0.7	(1.0 0.93 -0.38 -0.53)	(1.0 1.35 0.23 -0.60 -0.39)
0.8	(1.0 0.83 -0.55 -0.60)	(1.0 1.26 0.032 -0.78 -0.45)
0.9	(1.0 0.73 -0.71 -0.68)	(1.0 1.16 -0.17 -0.95 -0.51)
1	(1.0 0.63 -0.87 -0.76)	(1.0 1.06 -0.37 -1.12 -0.57)

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FIG. 7

K=1.6

α	n=4 (a1,a2,a3,a4)	n=5 (a1,a2,a3,a4,a5)
0	(1.0 1.63 0.74 0.0)	(1.0 1.97 1.50 0.47 0.0)
0.1	(1.0 1.55 0.59 -0.076)	(1.0 1.93 1.40 0.35 -0.051)
0.2	(1.0 1.47 0.44 -0.15)	(1.0 1.88 1.25 0.21 -0.108)
0.3	(1.0 1.38 0.28 -0.23)	(1.0 1.82 1.10 0.047 -0.17)
0.4	(1.0 1.29 0.12 -0.32)	(1.0 1.75 0.92 -0.12 -0.24)
0.5	(1.0 1.20 -0.051 -0.40)	(1.0 1.68 0.74 -0.30 -0.30)
0.6	(1.0 1.10 -0.22 -0.48)	(1.0 1.59 0.53 -0.49 -0.37)
0.7	(1.0 1.00 -0.39 -0.56)	(1.0 1.50 0.33 -0.68 -0.44)
0.8	(1.0 0.90 -0.56 -0.64)	(1.0 1.41 0.11 -0.87 -0.51)
0.9	(1.0 0.80 -0.73 -0.72)	(1.0 1.31 -0.11 -1.06 -0.57)
1	(1.0 0.70 -0.90 -0.80)	(1.0 1.21 -0.33 -1.25 -0.64)

K=1.8

α	n=4 (a1,a2,a3,a4)	n=5 (a1,a2,a3,a4,a5)
0	(1.0 1.71 0.80 0.0)	(1.0 1.97 1.50 0.47 0.0)
0.1	(1.0 1.62 0.64 -0.081)	(1.0 1.93 1.40 0.35 -0.051)
0.2	(1.0 1.53 0.47 -0.16)	(1.0 1.88 1.25 0.21 -0.108)
0.3	(1.0 1.44 0.30 -0.25)	(1.0 1.82 1.10 0.047 -0.17)
0.4	(1.0 1.35 0.13 -0.33)	(1.0 1.75 0.92 -0.12 -0.24)
0.5	(1.0 1.25 -0.041 -0.42)	(1.0 1.68 0.74 -0.30 -0.30)
0.6	(1.0 1.15 -0.22 -0.50)	(1.0 1.59 0.53 -0.49 -0.37)
0.7	(1.0 1.05 -0.39 -0.59)	(1.0 1.50 0.33 -0.68 -0.44)
0.8	(1.0 0.96 -0.57 -0.67)	(1.0 1.41 0.11 -0.87 -0.51)
0.9	(1.0 0.86 -0.74 -0.75)	(1.0 1.31 -0.11 -1.06 -0.57)
1	(1.0 0.76 -0.92 -0.84)	(1.0 1.21 -0.33 -1.25 -0.64)

VALUES OF PARTIAL RESPONSE INTERSYMBOL
INTERFERENCE SET IN THE ONE OF
EMBODIMENTS OF THE INVENTION (K=1.6,1.8)

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FIG. 8

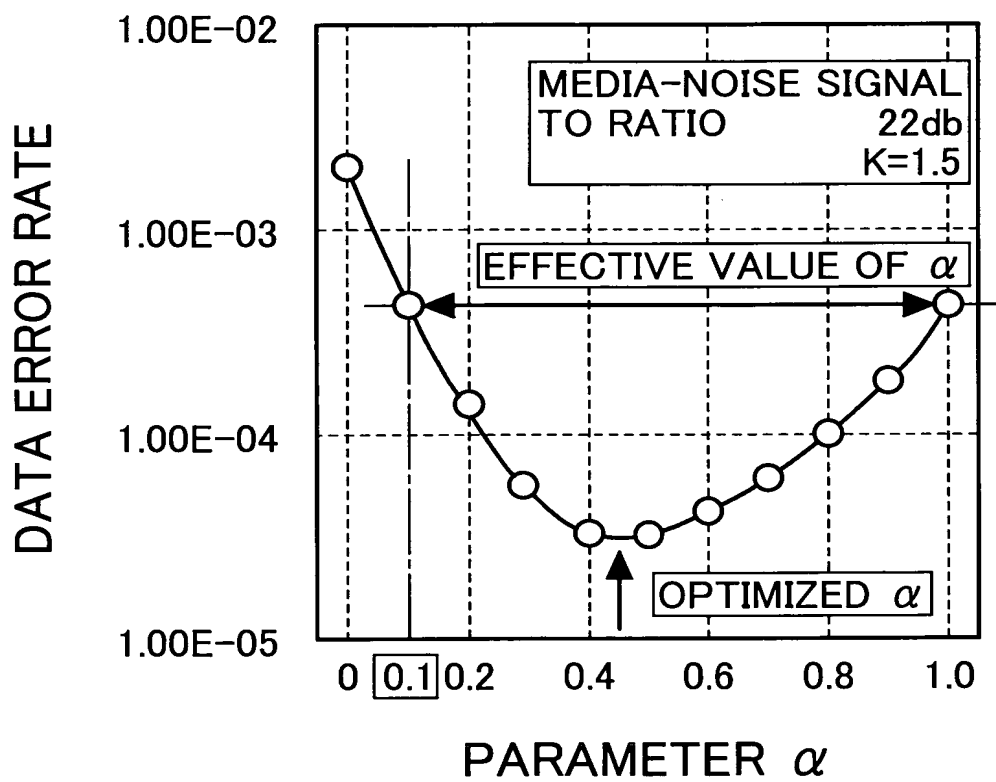


FIG. 9

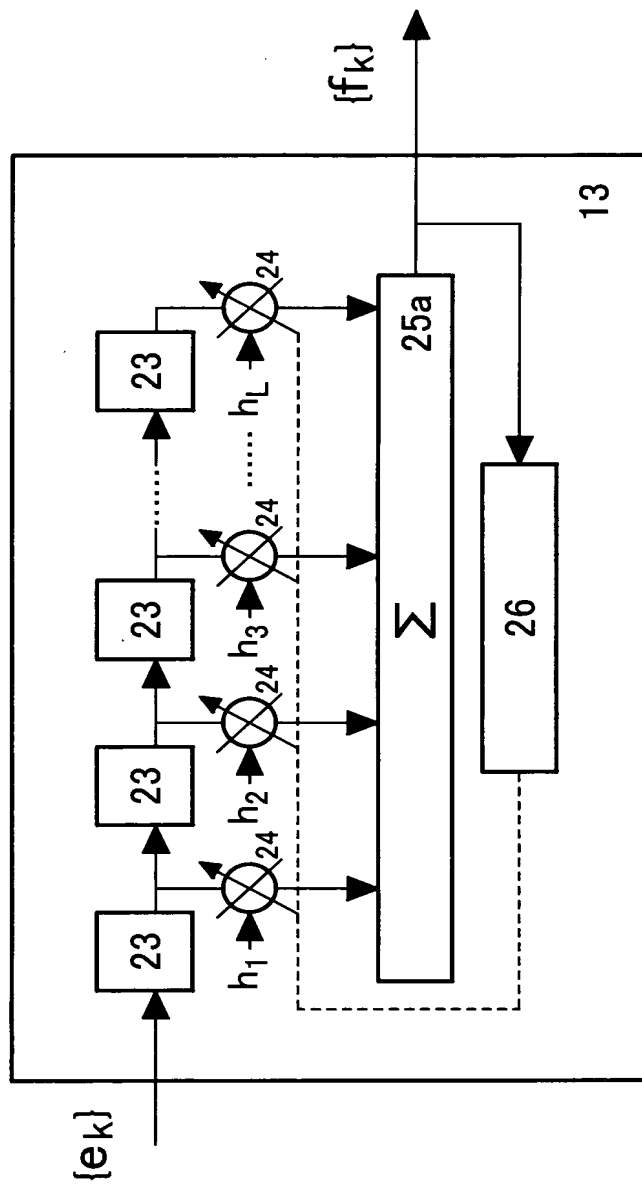


FIG. 10

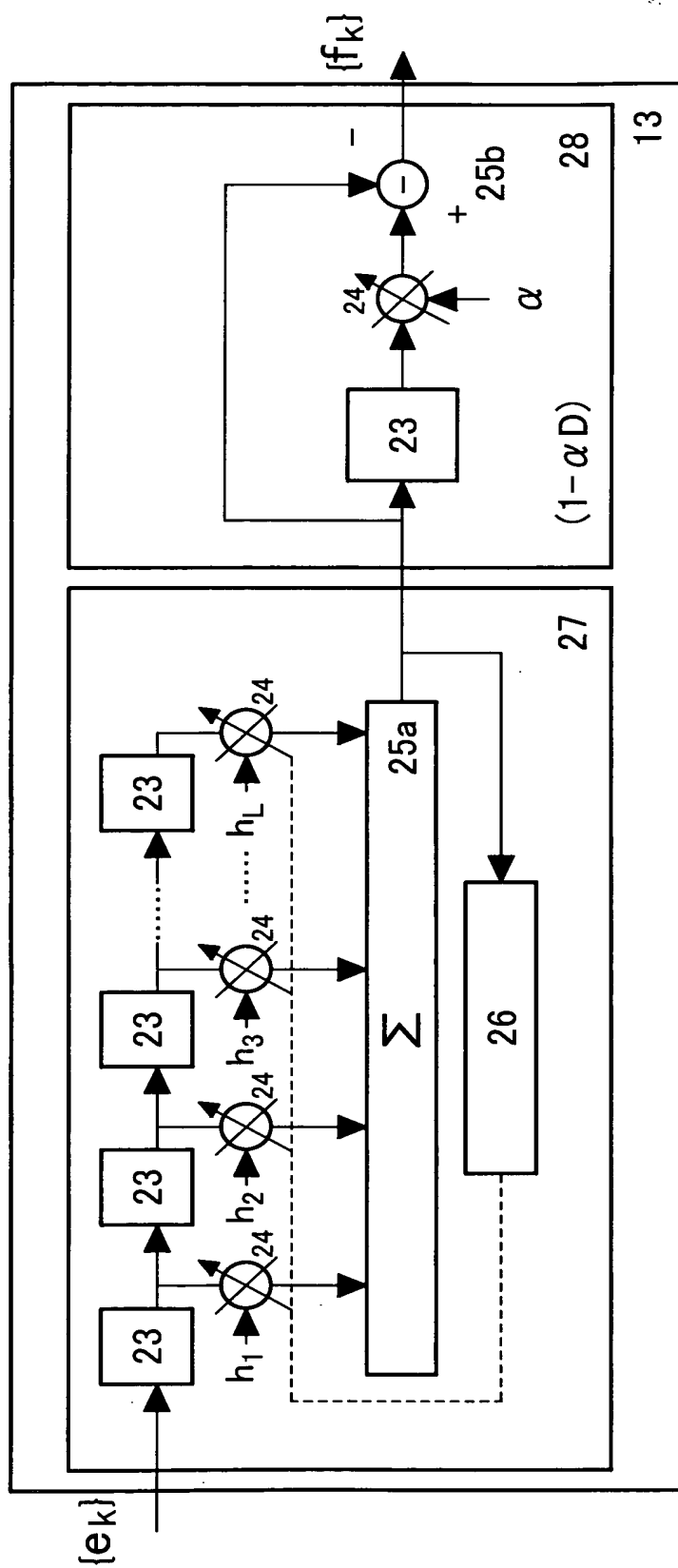


FIG. 11

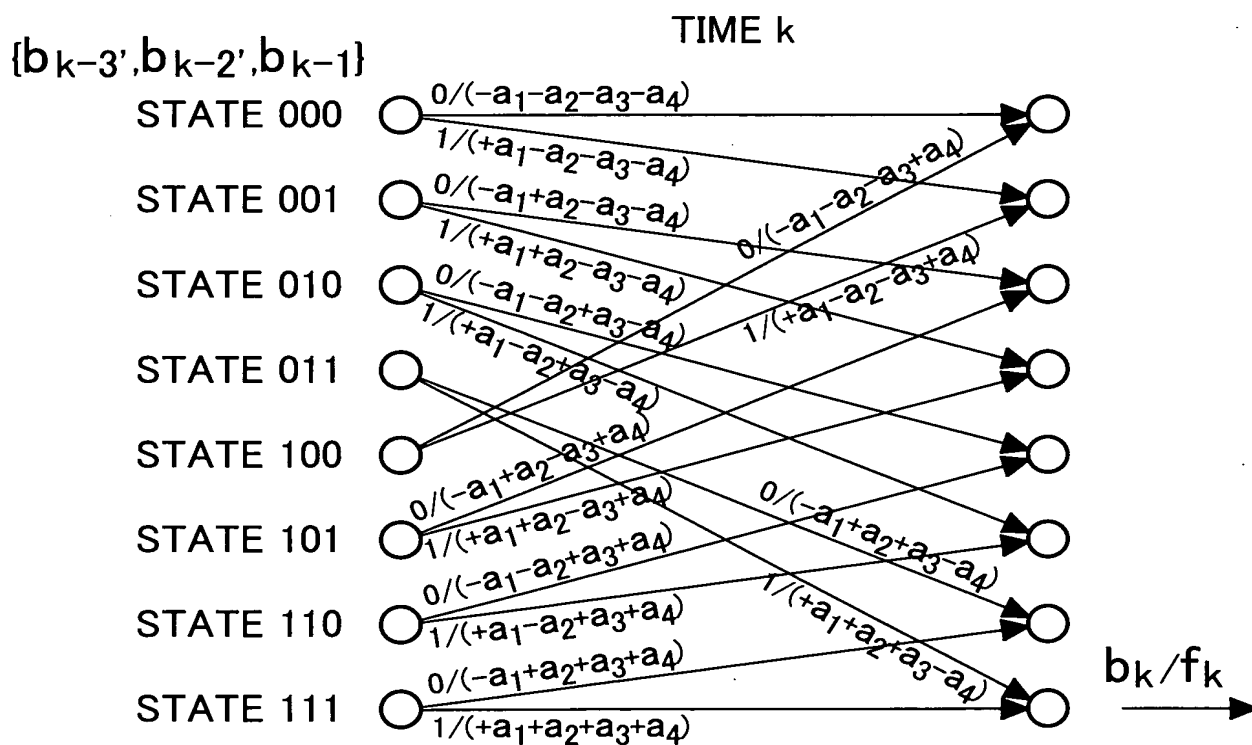


FIG. 12

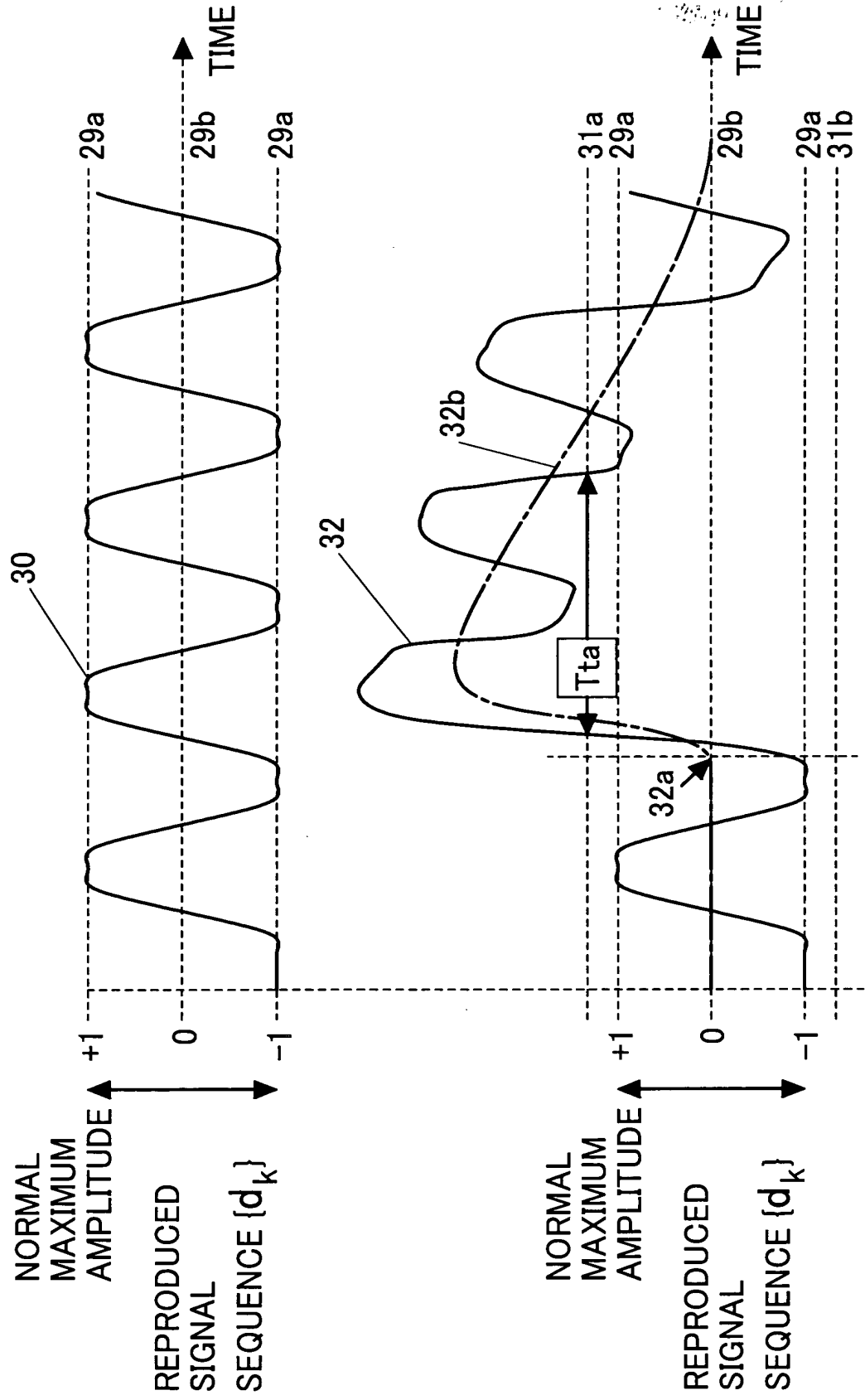


FIG. 14

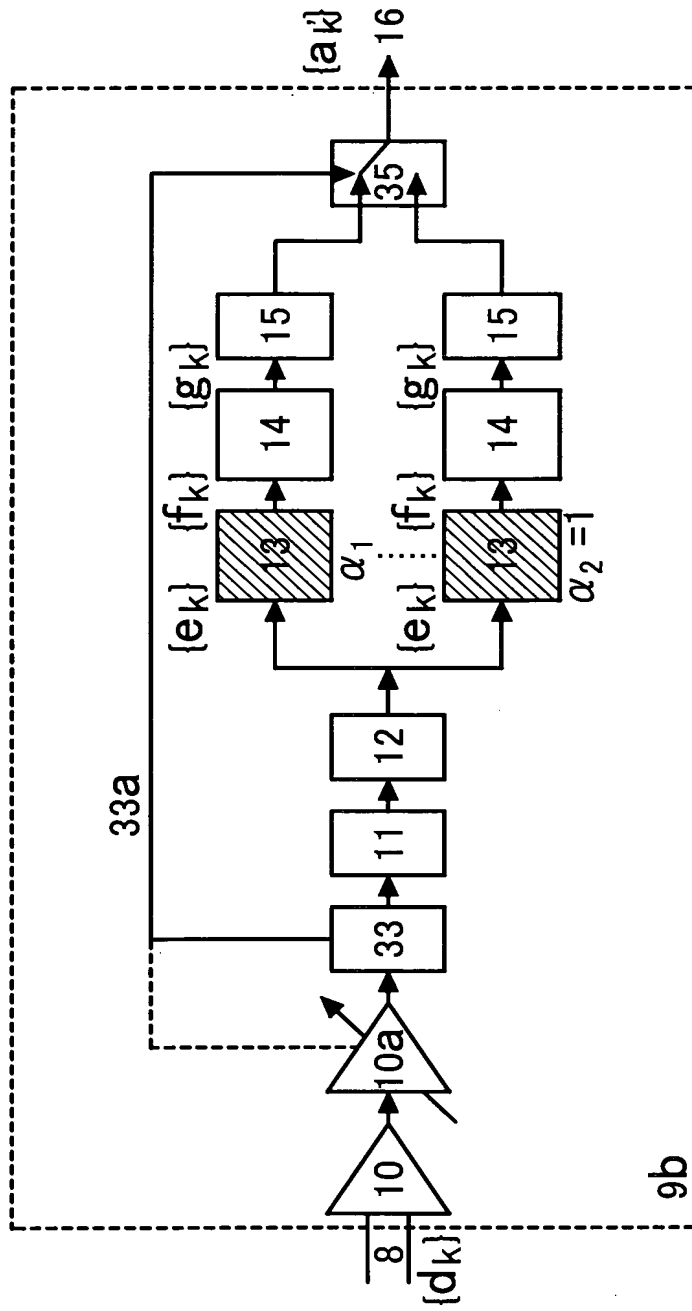


FIG. 15

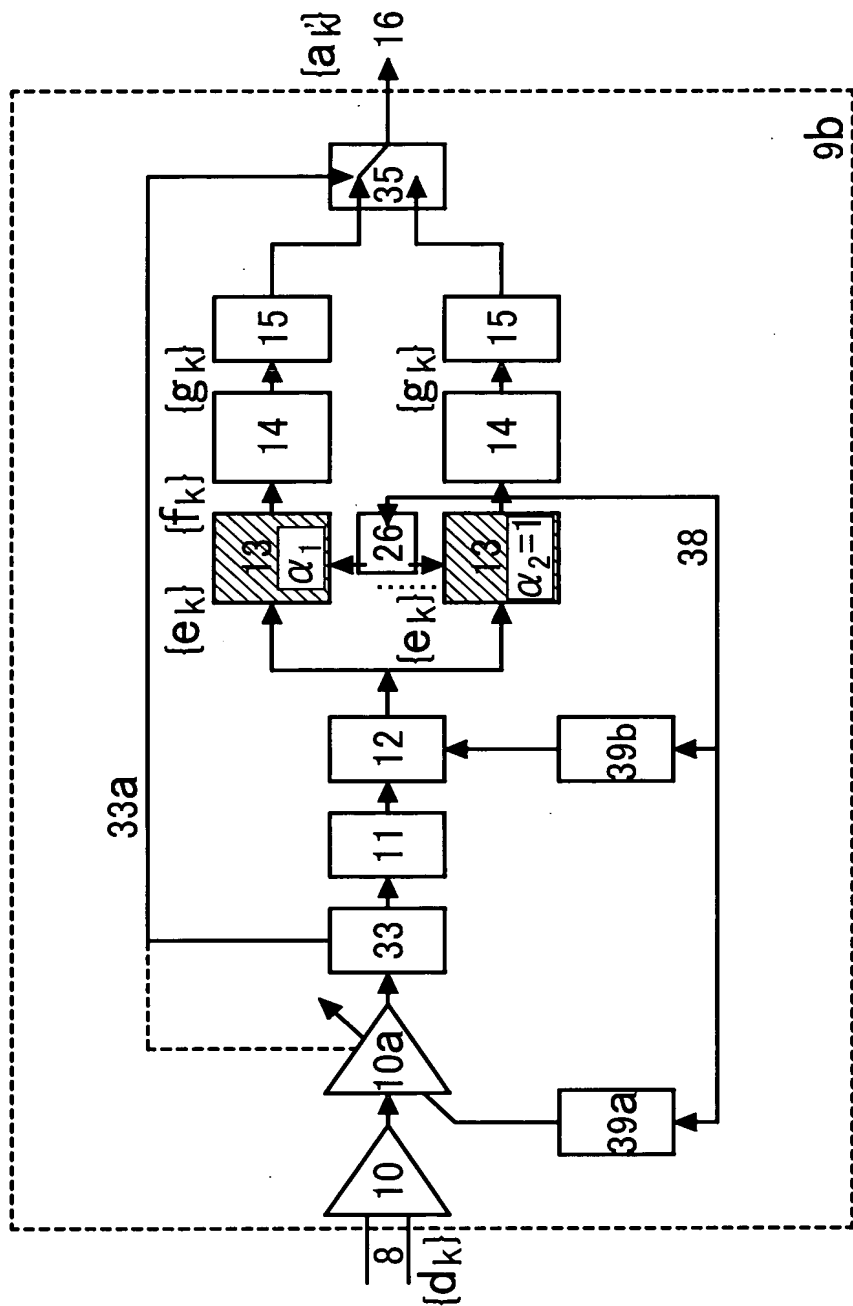


FIG. 16

